

Douglas County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Douglas County economy.¹

These 23 sectors have a total direct output of approximately **\$242.8 million** and support **1,815 jobs** in Douglas County. Running the model for all 23 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Douglas County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	1815.1	2.19%	\$81,035,631	1.68%	\$242,831,484
Indirect Effect	283.2	0.34%	\$20,538,330	0.43%	\$40,265,445
Induced Effect	353.6	0.43%	\$22,754,038	0.47%	\$40,686,856
Total Effect	2451.9	2.96%	\$124,327,998	2.57%	\$323,783,785

As shown in the above table, agriculture, food, and food processing sectors support **2,452 jobs**, or **2.96%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately **\$124.3 million**, or **2.57% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **532 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Douglas County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	531.8	\$19,825,911
Landscape and horticultural services	391.1	\$23,608,259
Veterinary services	196.6	\$20,440,088
Bread and bakery product, except frozen, manufacturing	111.6	\$13,745,756
Grain farming	93.8	\$11,245,502
Wholesale trade	79.3	\$12,161,362
All other crop farming	75.0	\$1,933,391
Cookie and cracker manufacturing	66.2	\$23,833,884
Dog and cat food manufacturing	56.7	\$75,000,375
Oilseed farming	49.3	\$17,147,716

The dog and cat food manufacturing sector directly contributes approximately **\$75.0 million** to the Douglas County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
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Cookie and cracker manufacturing	66.2	\$23,833,884
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Bread and bakery product, except frozen, manufacturing	111.6	\$13,745,756
Wholesale trade	79.3	\$12,161,362
Frozen specialties manufacturing	31.9	\$11,711,227
Grain farming	93.8	\$11,245,502

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Douglas County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Grain farming	93.8	\$11,245,502.47
Vegetable and melon farming	5.8	\$620,290.04
Fruit farming	34.9	\$1,702,335.72
Tree nut farming	1.2	\$88,069.93
Greenhouse, nursery, and floriculture production	20.2	\$1,725,536.58
All other crop farming	75.0	\$1,933,391.45
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	531.8	\$19,825,910.57
Dairy cattle and milk production	4.7	\$994,976.70
Poultry and egg production	6.2	\$2,333,098.89
Animal production, except cattle and poultry and eggs	44.0	\$1,854,847.43
Commercial logging	1.9	\$49,742.72
Commercial hunting and trapping	4.0	\$16,478.96
Support activities for agriculture and forestry	46.7	\$1,279,827.48
Dog and cat food manufacturing	56.7	\$75,000,373.84
Frozen specialties manufacturing	31.9	\$11,711,227.42
Dehydrated food products manufacturing	22.8	\$9,764,873.50
Bread and bakery product, except frozen, manufacturing	111.6	\$13,745,755.20
Frozen cakes and other pastries manufacturing	6.1	\$959,019.30
Cookie and cracker manufacturing	66.2	\$23,833,883.29
All other food manufacturing	7.5	\$2,504,512.07
Other leather and allied product manufacturing	5.2	\$445,763.35
Veterinary services	196.6	\$20,440,088.27
Landscape and horticultural services	391.1	\$23,608,259.20

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Douglas County, the retail sector was omitted.